

WebEx Teams videoconference on Light Pollution
14th May 2020

Light Pollution

Experiences from the Czech Republic

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*Light....
A good servant,
but a bad master*

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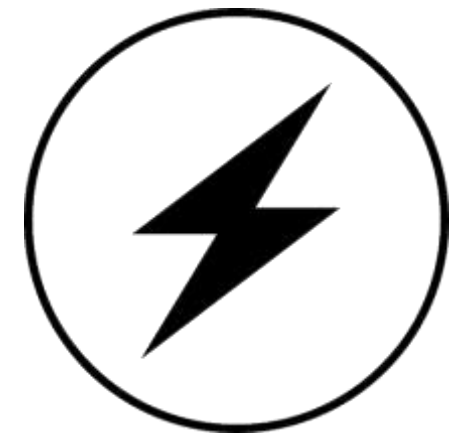
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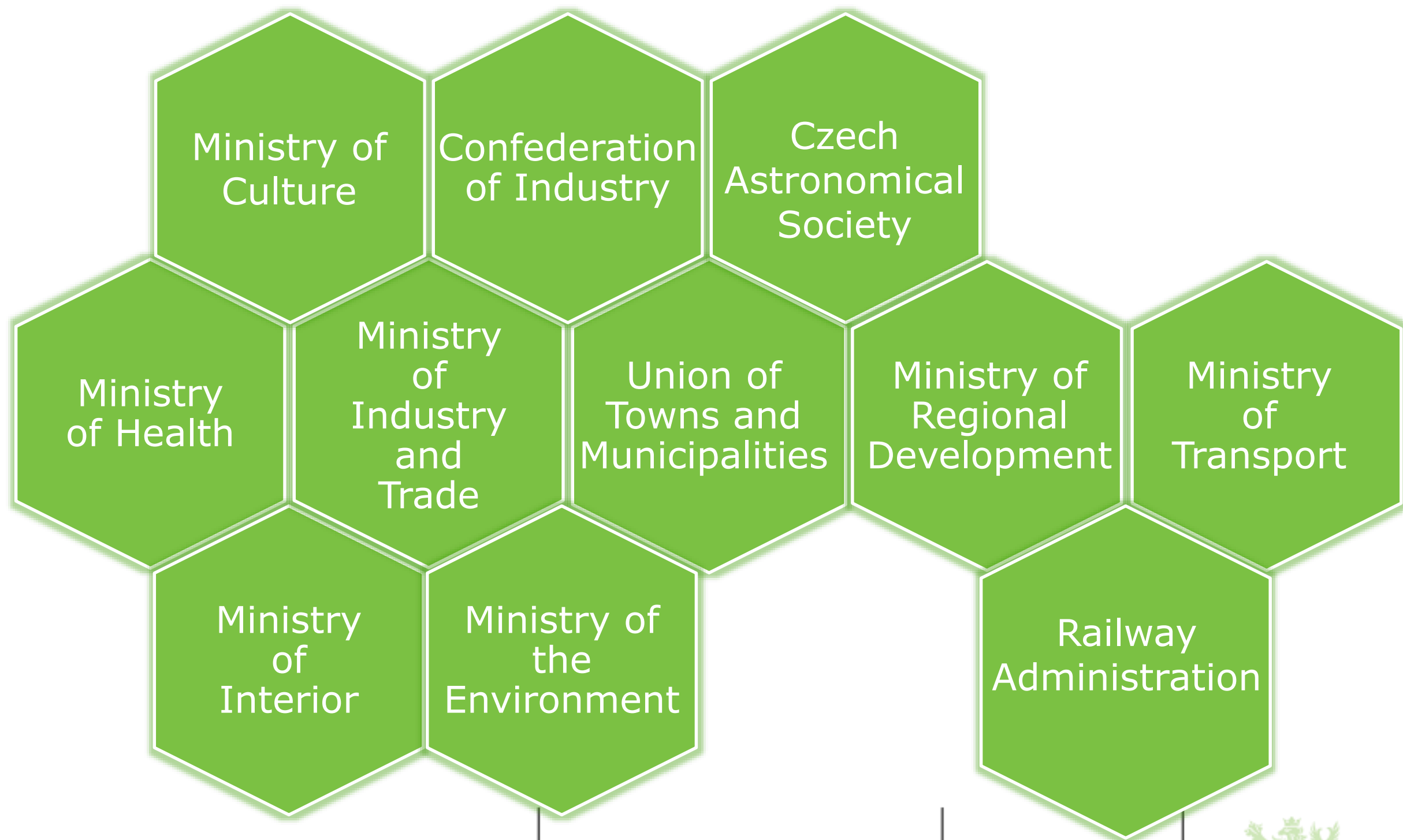
Overview

- 2/2017** Interministerial working group on Light Pollution
7/2017 I. Information to the Government
3/2018 II. Document – Action Plan on light pollution
(Government Resolution No. 185/2018)

Act no. 114/1992 Coll., on Nature and landscape protection
So far no specific law on light pollution



Interministerial group - members



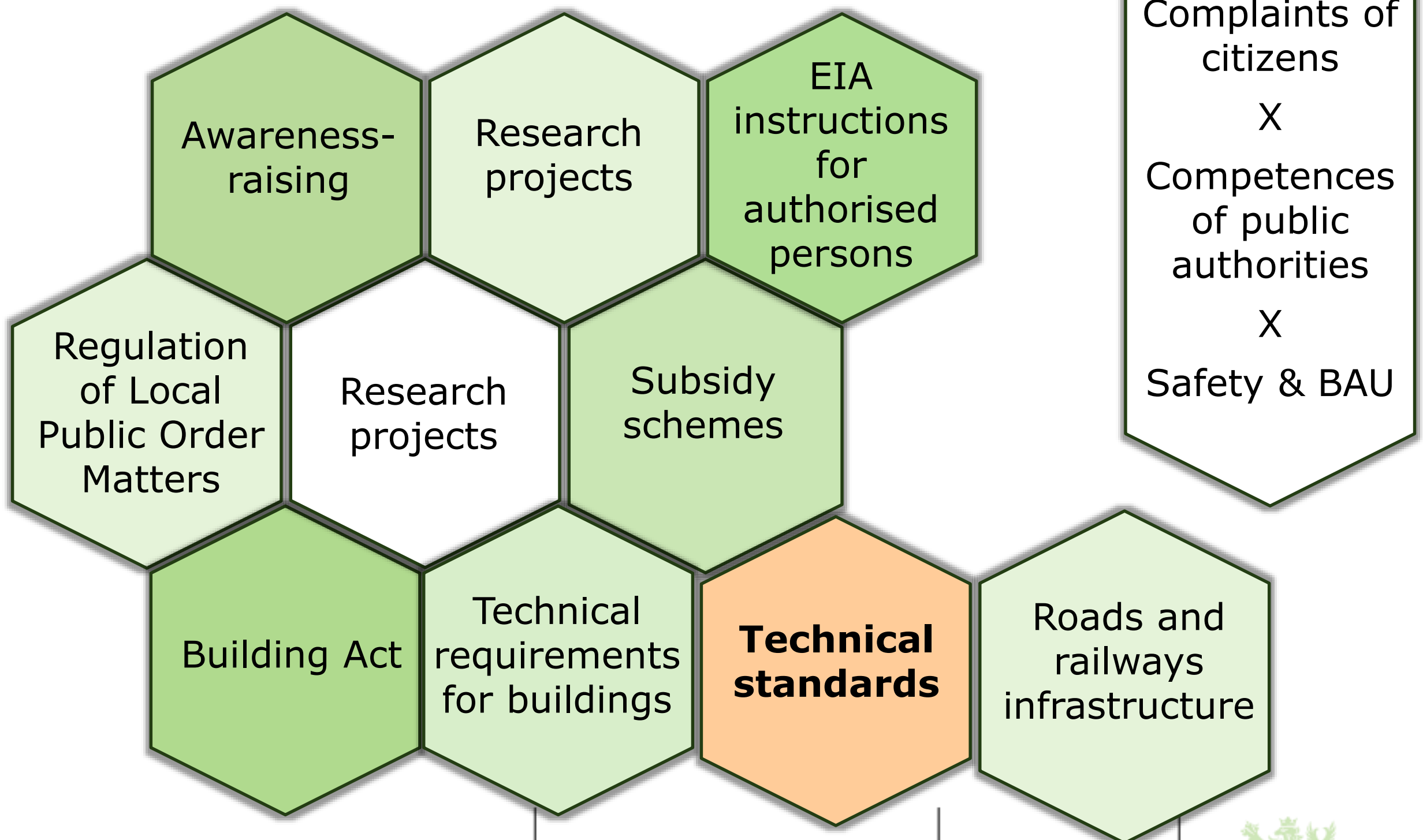
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Tasks



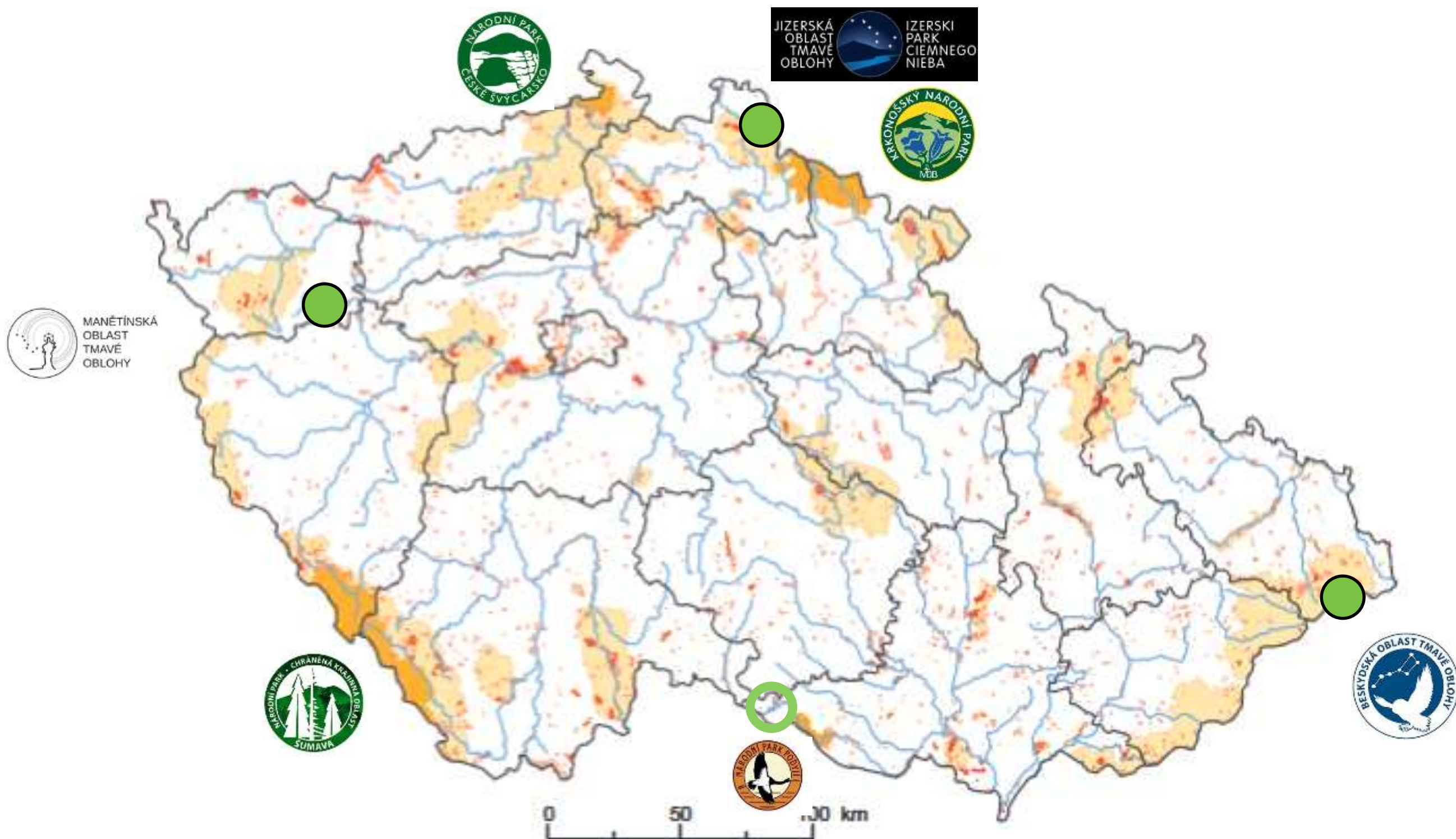
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Protected areas in the Czech Republic



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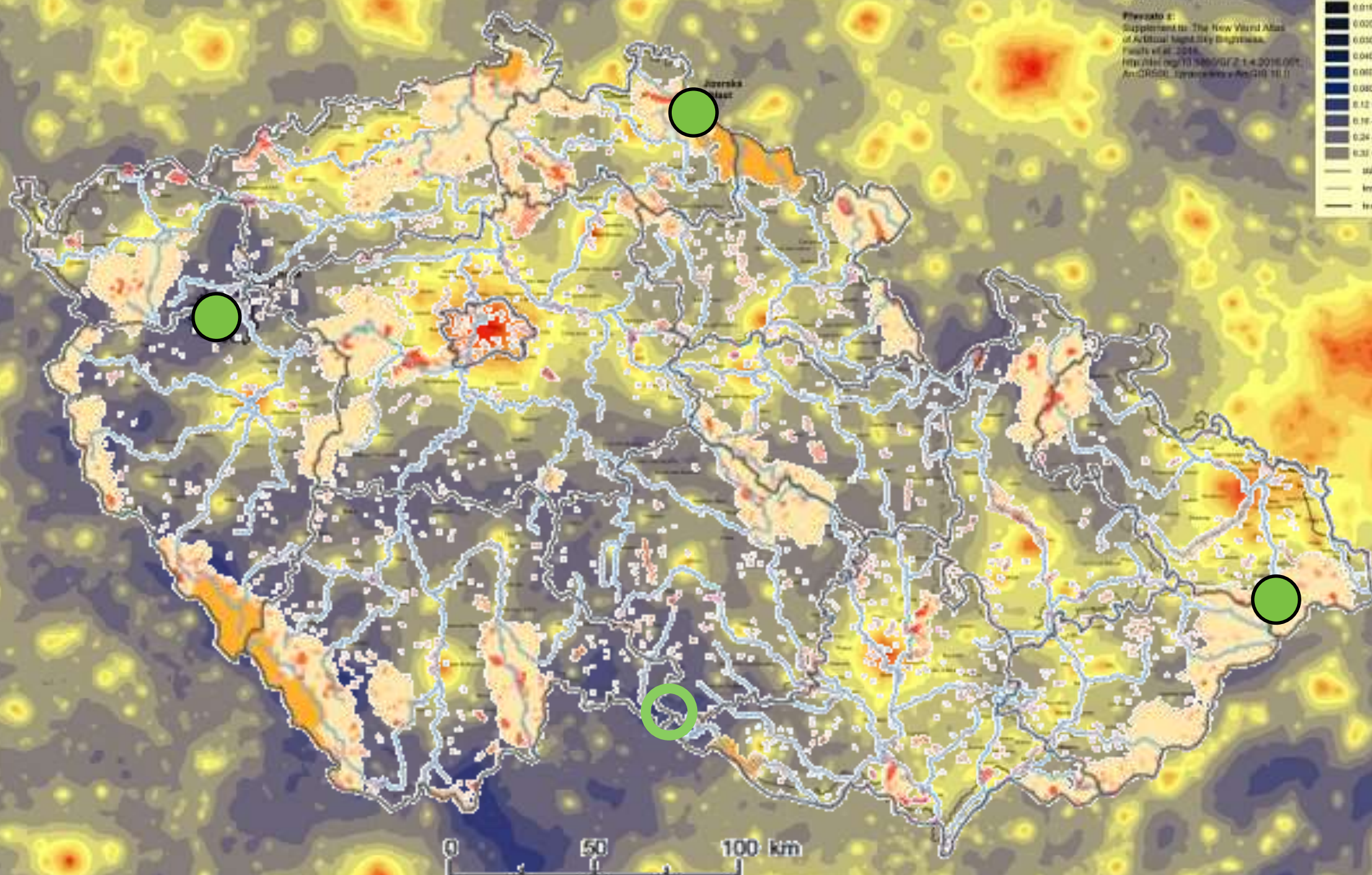
UMĚLÝ JAS NOČNÍ OBLOHY NAD ČESKOU REPUBLIKOU



0 50 100 km

Česká astronomická společnost, 2017
www.zvezdy.cz

Převzato z:
Supplement to: The New Vernal Atlas
of Artificial Night Sky Brightness,
Pavel et al., 2016,
http://doi.org/10.5805/GT.2.14.2016.007,
AnGR500, J2000.0, v. AnGR10.1.1



Subsidy scheme - Public Lighting Renovation

2017 – National Parks (NP)

2018; 2019; 2020 – NP and Protected Landscape Areas

2018; 2019; 2020 – Other Areas

National Parks

15 mil. CZK / 0,5 mil. EUR

Protected Landscape Areas

30 mil. CZK / 1,1 mil. EUR

Other Areas

90 mil. CZK / 3,3 mil. EUR

www.narodniprogramzp.cz

www.mpo-efekt.cz

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Public Lighting Renovation

» Reduce light pollution and
achieve energy savings«



Public Lighting Renovation

- Terms:
 - Projects: CZK 50,000 - CZK 2 million (EUR 75 000)
 - ULOR = 0 %;
 - The level of lighting or brightness of the road must not exceed the values required by the ČSN EN 13201 standard by more than 30%;
 - **National Parks = 85 % of eligible expenditure**
 - **CCT: maximum 2700 K**
 - **Protected landscape and other areas = 50 % of eligible expenditure**
 - **CCT: 2700 K and lower = bonus**

Public Lighting Renovation

- Terms:

Road type	Bonus	Max. CCT (K)
P	≤ 2700	≤ 2700
C	≤ 2700	≤ 3000
M3-M6	≤ 2700	≤ 3500
M1-M2	≤ 2700	≤ 4000

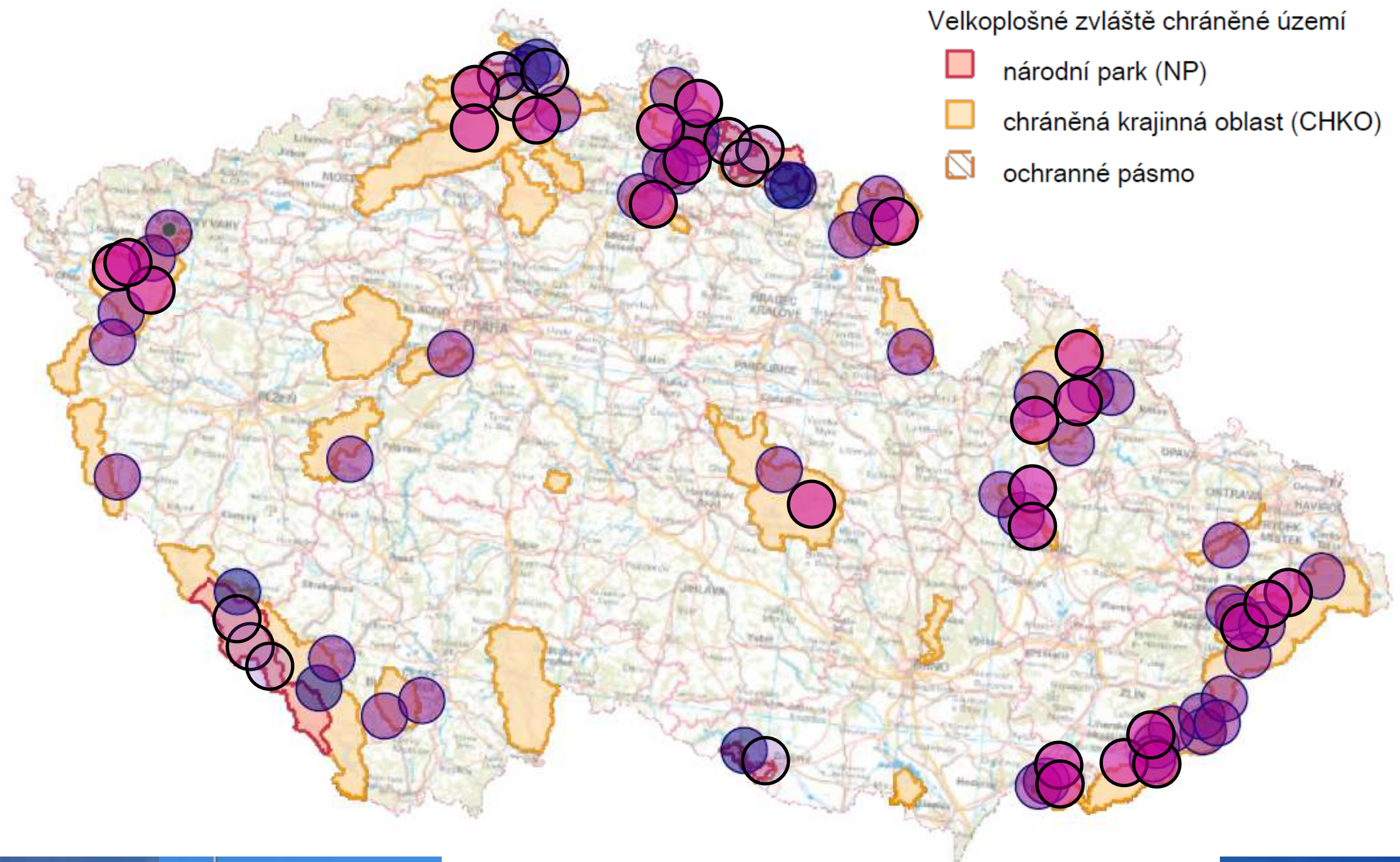
Evaluation Criteria	Importance	Type
Share of energy saved in total consumption (%)	35 %	MAX
Share of eligible costs in energy savings (CZK/MWh)	35 %	MIN
CCT of each lamp ≤ 2700 (yes = 1 / no = 0)	20 %	MAX
Eligible expenditures per lamp (CZK)	10 %	MIN

2700K

3500K

5000K

Projects 2018, 2019



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Awareness raising



The way ahead of us

- **Update of Light Pollution Action Plan**

- Landmarks
- Advertising / Billboards
- Recodification of Building Act
- Technical Standards
- Subsidy Schemes 2020+

- **Light pollution as a topic**

- State Environmental Policy 2030
- European level
- International debate:
CIE standards / biodiversity protection



Thank You For Your Attention

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